CURRENT FISHERIES STATISTICS NO. 7202

Industrial Fishery Products, Annual Summary 1976

CONTENTS

	Page
Narrative review	2
Summary of production, by products	3
Value of production, by States and plant count	3
Production of industrial fishery products:	
Marine animal scrap and meal	4
Marine animal oil	4
Fish solubles	4
Menhaden products	5
Oyster shell products	5
Miscellaneous industrial fishery products	5
Number of plants producing industrial fishery products, by type of product	6
Production of industrial fishery products, 1963-76	7

Source of data:--Since 1921, the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration and its predecessor organizations have made annual surveys for statistics on the domestic production of industrial fishery products. The data collected include statistics on the production and value of each commodity. The value shown for the products constitutes the gross amount received by the producer at the production point; no deductions are made for commission or expenses.

November 23, 1977

Washington, D.C. 20235
202-634-7366

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / NATIONAL MARINE FISHERIES SERVICE

REVIEW

The value of industrial fishery products in the United States, American Samoa, and Puerto Rico in 1976 was $184.8 million--$22.5 million more than the $162.3 million in 1975. In terms of value, the leading producing States were Louisiana ($63.9 million), Maine ($27.3 million), Virginia ($22.4 million), and California ($20.9 million).

Fish meal and scrap. Domestic production, including shellfish meal, was 309,694 tons--19,263 tons more than the 290,431 tons in 1975. Menhaden meal (212,553 tons) accounted for 69 percent of the total production and was 21,110 tons more than the 191,443 tons in 1975. Tuna meal increased by 2,850 tons to 40,059 tons in 1976 compared with 37,209 tons in 1975. Anchovy meal in 1976 was 22,164 tons--5,540 tons (20 percent) less than the 27,704 tons in 1975. Meal from alewife, thread herring, and unclassified fish was 19,896 tons in 1976, compared with 19,241 tons produced in 1975. The 10,684 tons of shellfish meal in 1976 was 569 tons less than the 1975 production of 11,253 tons. Meal from crabs and shrimp was 1,670 and 587 tons, respectively, less than the 8,442 tons and 1,785 tons produced in 1975, but was offset by an increase in mixed fish meal from 1,026 tons in 1975 to 2,714 tons in 1976.

Fish oils. The domestic production of fish oil was 204.6 million pounds valued at $31.2 million--41.1 million pounds and $1.4 million less than the 245.7 million pounds and $32.6 million in 1975. The production of all fish oils decreased in 1976, except for sea herring oil, which increased 477,000 pounds. Menhaden oil (186.4 million pounds) declined 26.9 million pounds compared with 1975. With a decline in the production of fish oils (other than liver), imports increased from 11.3 million pounds in 1975 to 20.9 million pounds in 1976.

Fish solubles. Domestic production of fish solubles was 133,107 tons valued at $14.3 million, up 5,257 tons and $5.5 million compared with 1975. The 95,313 tons of menhaden solubles contributed 72 percent of the total 133,107 tons produced in 1976, compared with 83,624 tons and 65 percent of the total 127,850 tons in 1975.

Other industrial products. Oyster shell products (grit and lime) were valued at $6.1 million in 1976 compared with $5.8 million in 1975. The value of other industrial products was $36.4 million compared with $49.6 in 1975. These other industrial products included agar-agar, animal feeds and fish pellets, clam and crab shells (processed for food serving), Irish moss extracts, kelp products, shark leathers, liquid fertilizers, marine pearl shell buttons, pearl essence, and other products.

SUMMARY OF PRODUCTION, BY PRODUCTS, 1976

Product	Plants	Unit	Quantity	Dollars
	Number		Thousands	
Fish and shellfish meal	76	Tons	310	96,815
Fish body oils	40	Pounds	204,581	31,156
Fish solubles	26	Tons	133	14,257
Oyster shell grit and lime ("live and reef shells")	6	do	268	6,085
Miscellaneous industrial products	39	–	–	36,437
Total	(1) 115	–	–	184,750

(1) Exclusive of duplication.

VALUE OF PRODUCTION BY STATE AND PLANT COUNT, 1976

State	Thousand dollars
Maine (8)	27,266
Massachusetts (3)	2,806
Rhode Island (2), New York (2), and Pennsylvania (1)	160
New Jersey (4)	7,389
Maryland (5)	1,734
Virginia (9)	22,371
North Carolina (7)	8,692
Georgia (2), Alabama (1), and Texas (1)	4,686
Florida (3)	355
Mississippi (6)	11,240
Louisiana (19)	63,894
Alaska (3)	741
Washington (8)	3,170
Oregon (5)	2,618
California (17)	20,885
Iowa (1), Utah (1), and Wisconsin (1)	2,738
American Samoa (2) and Puerto Rico (4)	4,005
Total (116)	184,750

PRODUCTION OF MARINE ANIMAL MEAL AND SCRAP, 1976

Product	Atlantic and Gulf Coasts		American Samoa, Pacific Coast, and Puerto Rico		Total	
	Thousand tons	Thousand dollars	Thousand tons	Thousand dollars	Thousand tons	Thousand dollars
Dried scrap and meal:						
Fish:						
Anchovy	—	—	22	6,080	22	6,080
Herring, sea	(1) 4	(1) 1,620	—	—	4	1,620
Menhaden	213	72,746	—	—	213	72,746
Tuna and mackerel	—	—	40	8,820	40	8,820
Unclassified	(2) 18	(2) 5,900	2	516	20	6,416
Total	235	80,266	64	15,416	299	95,682
Shellfish:						
Crab	6	676	1	105	7	781
Shrimp	(1) 1	(1) 116	—	—	1	116
Unclassified	—	—	3	236	3	236
Total	7	792	4	341	11	1,133
Grand total	242	81,058	68	15,757	310	96,815

(1) Includes production on the Pacific Coast. (2) Includes production in the Great Lakes and Mississippi River areas.

PRODUCTION OF MARINE ANIMAL OIL, 1976

Product	Atlantic and Gulf Coasts		Pacific Coast and Puerto Rico		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fish oil:						
Anchovy	—	—	5,334	643	5,334	643
Herring, sea	(1) 2,075	(1) 356	—	—	2,075	356
Menhaden	186,400	28,910	—	—	186,400	28,910
Tuna and mackerel	—	—	6,340	554	6,340	554
Unclassified	(2) 3,755	(2) 620	677	73	4,432	693
Total	192,230	29,886	12,351	1,270	204,581	31,156

(1) Includes production on the Pacific Coast.
(2) Includes production in the Great Lakes and Mississippi River areas and liver oils.

PRODUCTION OF FISH SOLUBLES, 1976

Product, state, and number of plants	Thousand tons	Thousand dollars
Menhaden:		
New Jersey (1), Virginia (2), and Florida (1)	41	4,752
North Carolina (4)	9	1,206
Louisiana (8) and Mississippi (2)	45	4,969
Total (18)	95	10,927
Unclassified:		
Maine (1), Massachusetts (1), Virginia (1), California (5), Oregon (1), and Puerto Rico (1)	38	3,330
Grand total	133	14,257

PRODUCTION OF MENHADEN PRODUCTS, 1976

State and number of plants	Dried scrap and meal		Oil		Solubles		Total
	Thousand tons	Thousand dollars	Thousand pounds	Thousand dollars	Thousand tons	Thousand dollars	Thousand dollars
Maine (2) and Massachusetts (1)	6	1,984	6,732	959	–	–	2,943
New Jersey (1), Virginia (2), and Florida (1)	59	19,375	26,808	4,066	41	4,752	28,193
North Carolina (4)	16	6,136	1,360	215	9	1,206	7,557
Mississippi (3)	21	6,947	20,641	20,431	(1)	(1)	27,378
Louisiana (8)	111	38,304	130,859	3,239	45	4,969	46,512
Total (22)	213	72,746	186,400	28,910	95	10,927	112,583

(1) Included with Louisiana.

Note:--May include a small quantity of other species.

PRODUCTION OF OYSTER SHELL PRODUCTS, 1976

("Live and reef shells")

State and number of plants	Poultry grit		Lime, burned and unburned		Total	
	Thousand tons	Thousand dollars	Thousand tons	Thousand dollars	Thousand tons	Thousand dollars
Alabama (1), Maryland (1), Oregon (1), Pennsylvania (1), and Texas (1)	244	5,570	24	515	268	6,085

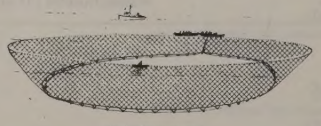
PRODUCTION OF MISCELLANEOUS INDUSTRIAL FISHERY PRODUCTS, 1976

Product	State and number of plants	Thousand dollars
Agar-agar	California (1)	
Animal feeds and fish feed pellets	California (2), Massachusetts (1), New York (1), Oregon (4), Rhode Island (1), Utah (1), Virginia (2), and Washington (6)	
Clam and crab shells (processed for food serving)	Florida (1), Mississippi (2), North Carolina (1), and Rhode Island (1)	
Irish moss extracts	Maine (2) and Massachusetts (1)	36,437
Kelp products	California (2)	
Shark leather	New Jersey (1)	
Liquid fertilizer	California (1)	
Marine pearl shell buttons	Maryland (1) and New Jersey (2)	
Pearl essence	Maine (3)	
Unclassified crab products and fish protein concentrate	Massachusetts (1) and Washington (1)	

NUMBER OF PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, BY TYPE PRODUCT, 1976

Product	Atlantic and Gulf Coasts (1)	Pacific Coast (2)	Total
	Number		
Scrap and meal, dried:			
Alewife	3	–	3
Anchovy	–	6	6
Carp	1	–	1
Crab	15	2	17
Herring:			
Sea	2	2	4
Thread	2	–	2
Menhaden	22	–	22
Shrimp	10	2	12
Tuna and mackerel	–	13	13
Unclassified	20	4	24
Oil:			
Alewife	3	–	3
Anchovy	–	6	6
Carp	1	–	1
Herring:			
Sea	3	2	5
Thread	2	–	2
Menhaden	22	–	22
Tuna and mackerel	–	8	8
Unclassified:			
Liver	1	–	1
Body	4	3	7
Shell products:			
Clam shells processed for food serving	2	–	2
Crabs shells processed for food serving	2	–	2
Marine pearl shell buttons	3	–	3
Oyster shell:			
Crushed for poultry feed	4	1	5
Lime (burned and unburned)	2	1	3
Seaweed products:			
Agar-agar	–	1	1
Irish moss extracts	3	–	–
Kelp products	–	1	–
Miscellaneous:			
Animal feeds and fish pellets	5	13	18
Fish protein concentrate	1	–	1
Fish solubles	18	7	25
Liquid fertilizer	–	1	1
Pearl essence	3	–	3
Shark leather	1	–	1
Unclassified crab products	–	1	–
Total, exclusive of duplication	75	40	115

(1) Includes firms in the Great Lakes and Mississippi River areas. (2) Includes Puerto Rico and American Samoa.



Menhaden purse seine

PRODUCTION OF INDUSTRIAL FISHERY PRODUCTS, 1963 – 1976

Year	Menhaden, dried scrap and meal		Herring meal		Tuna and mackerel meal	
	Tons	Thousand dollars	Tons	Thousand dollars	Tons	Thousand dollars
1963 . . .	184,205	22,263	7,537	856	26,957	2,943
1964 . . .	160,349	20,001	8,881	1,103	21,113	2,229
1965 . . .	175,959	25,869	12,932	2,006	25,399	3,032
1966 . . .	134,954	20,539	11,860	1,971	25,290	3,199
1967 . . .	119,135	15,265	9,492	1,328	25,487	2,758
1968 . . .	143,154	19,534	15,411	2,128	28,781	2,955
1969 . . .	159,493	26,960	6,563	1,045	26,870	3,239
1970 . . .	188,550	34,658	6,415	1,175	26,674	3,753
1971 . . .	220,996	34,953	5,189	860	29,287	3,706
1972 . . .	193,580	35,294	5,487	1,162	43,226	5,484
1973 . . .	188,786	84,893	4,457	1,978	43,635	13,243
1974 . . .	203,859	60,369	3,191	1,268	48,244	11,603
1975 . . .	191,443	45,993	3,581	1,074	37,209	6,384
1976 . . .	212,553	72,746	4,338	1,620	40,059	8,820

Year	Other, dried scrap and meal		Total, scrap and meal		Fish solubles and homogenized condensed fish	
	Tons	Thousand dollars	Tons	Thousand dollars	Tons	Thousand dollars
1963 . . .	37,208	4,172	255,907	30,235	107,402	6,753
1964 . . .	44,909	4,706	235,252	28,039	93,236	5,662
1965 . . .	39,761	4,800	254,051	35,707	94,850	5,939
1966 . . .	51,717	6,566	223,821	32,276	83,441	5,160
1967 . . .	57,075	6,687	211,189	26,038	74,675	4,588
1968 . . .	47,790	5,644	235,136	30,261	71,833	3,707
1969 . . .	59,738	8,579	252,664	39,823	81,692	4,123
1970 . . .	47,558	6,768	269,197	46,353	94,968	4,946
1971 . . .	37,340	4,982	292,812	44,501	111,188	5,046
1972 . . .	43,213	6,349	285,506	48,289	134,395	5,728
1973 . . .	50,639	19,792	287,517	119,905	137,435	15,446
1974 . . .	45,420	11,140	300,714	84,380	137,259	11,730
1975 . . .	58,198	12,094	290,431	65,545	127,850	8,753
1976 . . .	52,744	13,629	309,694	96,815	133,107	14,257

Year	Menhaden oil		Herring oil		Tuna and mackerel oil	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1963 . . .	167,635	9,853	5,709	293	5,903	274
1964 . . .	157,730	11,735	10,354	785	4,816	272
1965 . . .	175,204	13,241	8,528	748	4,794	334
1966 . . .	144,198	10,982	7,882	585	4,111	303
1967 . . .	101,384	4,736	5,676	307	5,218	268
1968 . . .	152,020	6,247	9,533	376	4,549	163
1969 . . .	149,155	8,253	3,484	217	4,256	132
1970 . . .	186,283	16,833	5,437	328	3,534	168
1971 . . .	244,040	19,249	5,856	488	4,933	255
1972 . . .	166,956	11,563	5,064	481	5,030	272
1973 . . .	200,489	23,051	1,724	238	7,396	494
1974 . . .	217,045	46,060	(1)	(1)	6,819	810
1975 . . .	213,271	29,182	1,598	161	6,444	691
1976 . . .	186,400	28,910	2,075	356	6,340	554

See footnotes at end of table.

(Continued on next page)

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Washington, D.C. 20235

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
COM-210
THIRD CLASS MAIL

PRODUCTION OF INDUSTRIAL FISHERY PRODUCTS, 1963 — 1976 - Continued

Year	Whale and sperm oil		Other marine animal oil		Total oil	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1963 . . .	2,129	148	4,451	285	185,827	10,853
1964 . . .	3,160	196	4,138	309	180,198	13,297
1965 . . .	2,667	169	4,247	360	195,440	14,852
1966 . . .	1,365	81	6,489	528	164,045	12,480
1967 . . .	2,483	147	7,637	653	122,398	6,112
1968 . . .	2,394	116	5,576	425	174,022	7,327
1969 . . .	1,736	104	11,154	620	169,785	9,326
1970 . . .	680	46	10,150	809	206,084	18,185
1971 . . .	418	40	10,203	799	265,450	20,831
1972 . . .	–	–	11,395	801	188,445	13,117
1973 . . .	–	–	15,025	1,781	224,634	25,563
1974 . . .	–	–	14,116	2,345	237,980	49,216
1975 . . .	–	–	24,340	2,569	245,653	32,603
1976 . . .	–	–	9,766	1,336	204,581	31,156

Year	Oyster and marine clam shell lime and grit	Freshwater mussel shell products	Marine pearl shell buttons	Other industrial products	Grand total
	Tons	Thousand dollars			
1963 . . .	398,583	5,480	369	1,152	13,759	68,601
1964 . . .	362,543	4,915	(2) 272	1,004	16,721	69,911
1965 . . .	349,528	4,558	(2) 117	901	20,756	82,830
1966 . . .	334,212	4,315	(3)	816	17,925	72,972
1967 . . .	311,367	4,144	(3)	789	19,356	61,027
1968 . . .	239,798	3,572	(3)	1,078	24,182	70,127
1969 . . .	207,332	3,329	(3)	841	25,562	83,005
1970 . . .	204,037	3,409	(4)	(4)	26,646	99,540
1971 . . .	228,605	4,128	(4)	(4)	32,046	106,551
1972 . . .	221,711	4,210	(4)	(4)	84,639	155,982
1973 . . .	207,922	4,015	–	(4)	37,898	202,828
1974 . . .	207,576	4,651	–	(4)	48,858	198,834
1975 . . .	275,852	5,847	–	(4)	49,550	162,297
1976 . . .	268,013	6,085	–	(4)	36,437	184,750

(1) Included with other oils. (2) Includes the value of pearl shell novelties.
(3) Included with marine pearl shell buttons. (4) Included with other industrial products.